

All-in-one Solar Charge Inverter

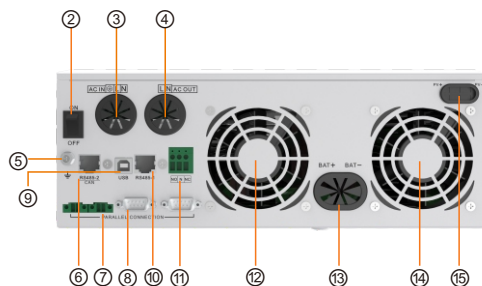
BSM-5500BLV-48DA (PV : 500V ; AC : 220/230V)



Performance characteristics

- Load friendly: Stable sine wave AC output via SPWM modulation
- Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and program.
- Dual LFP battery activation method: PV&mains
- Uninterrupted power supply: simultaneous connection to utility grid/generator and PV .
- Intelligent programming: the priority of the output from different energy sources can be set.
- High energy efficiency: up to 99.9% MPPT capture efficiency.
- Instant viewing of operation: the LCD panel displays data and settings ,while you can also be viewed using the app and webpage.
- Power saving: power saving mode automatically reduces power consumption at zero-load.
- Efficient heat dissipation: via intelligent adjustable speed fans
- Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection, and so on.
- under-voltage and over-voltage protection and reverse polarity protection.
- Supports up to 6 devices of the same model connected in parallel (forming a single-phase,split-phase,three-phase electrical system)

Product characteristics



①	Overload Protector	⑩	RS485-1 Communication Port
②	ON/OFF Rocker Switch	⑪	Dry Contact Port
③	AC Input Port	⑫	Cooling Fan
④	AC Output Port	⑬	Battery Port
⑤	Grounding Screw Hole	⑭	Cooling Fan
⑥	RS485-2 Communication Port (For BMS)	⑮	PV Port
⑦	Current Sharing Port (only apply to parallel modules)	⑯	Light Touch Button
⑧	Communication Port (only apply to parallel modules)	⑰	Indicator Light
⑨	USB Communication Port	⑱	LCD Screen

Parameters

Model	BSM-5500BLV-48DA	Adjustable
Battery Input		
Battery type	Sealed, Flood, GEL, LFP, Ternary	√
Rated Battery Input Voltage	48V (Minimum Startup Voltage 44V)	
Hybrid Charging Maximum Charging Current	80A	√
Battery Voltage Range	40Vdc~60Vdc ± 0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery...)	√
Solar Input		
Maximum PV Open-circuit Voltage	500Vdc	
PV Working Voltage Range	120-500Vdc	
MPPT Voltage Range	120-450Vdc	
Maximum PV Input Current	22A	
Maximum PV Input Power	6000W	
Maximum PV Charging Current	80A	√
AC Input (generator/grid)		
Mains Maximum Charging Current	60A	√
Rated Input Voltage	220/230Vac	
Input Voltage Range	UPS Mains Mode : (170Vac~280Vac)±2% APL Generator Mode : (90Vac~280Vac)±2%	√
Frequency	50Hz/ 60Hz (Automatic Detection)	
Mains Charging Efficiency	>95%	
Switch Time (bypass and inverter)	10ms(Typical Value)	
Maximum Bypass Overload Current	40A	
AC Output		
Output Voltage Waveform	Pure Sine Wave	
Rated Output Voltage (Vac)	230Vac	√
Rated Output Power (VA)	5500W	
Rated Output Power(W)	5500W	
Peak Power		
On-load Motor Capacity	4HP	
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz	√
Maximum Efficiency	>92%	
No-load Loss	Non Energy-saving Mode: ≤50W Energy-saving Mode : ≤25W (Manual Setup)	
General		
Number of parallel/split phases	1-6PCS	
Working Temperature Range	-10°C ~ 55°C	
Storage Temperature Range	-25°C ~ 60°C	
Humidity Range	5% to 95%(Conformal Coating Protection)	
Dimensions	426mm*322mm*124mm	
Weight (KG)	10.5	